

## WEST Search History





DATE: Wednesday, July 05, 2006

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	<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L15	L14 and crystal\$	42
<input type="checkbox"/>	L14	L1 and L5	72
	<i>DB=USPT; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L13	L1 and L5	18
<input type="checkbox"/>	L12	L11 and ligand\$	59
<input type="checkbox"/>	L11	L10 and 5a	116
<input type="checkbox"/>	L10	L1 and crystallization	1171
<input type="checkbox"/>	L9	L4 and pde5a	4
	<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L8	L6 and ligand	34
<input type="checkbox"/>	L7	L6 and lignad	0
<input type="checkbox"/>	L6	L5 and crystal\$	45
<input type="checkbox"/>	L5	pde5A	77
<input type="checkbox"/>	L4	L3 and crystal\$	1011
<input type="checkbox"/>	L3	L1 and 5a	2032
<input type="checkbox"/>	L2	L1 and inhibit\$	15138
<input type="checkbox"/>	L1	phosphodiesterase	15866

END OF SEARCH HISTORY



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for #2 and crystal

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#5 Search #2 and crystal

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#1 Search phosphodiesterase

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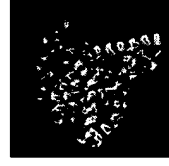
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☒ 1XP0

Characteristics



Classification



Compound



Authors



Release Date: 14-Dec-2004 Exp. Method: X Ray Diffraction



Resolution: 1.79 Å



Hydrolase

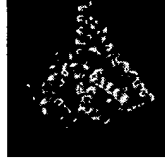


Mol. Id: 1 Molecule: Cgmp Specific 3' 5' Cyclic Phosphodiesterase Fragment: Catalytic Domain

Human Phosphodiesterase 5a

Card, G.L., England, B.P., Suzuki, Y., Fong, D., Powell, B., Lee, B., Luu, C., Tabrizizad, M., Gillette, S., Ibrahim, P.N., Artis, D.R., Bollag, G., Milburn M.V., Kim, S.-H., Schlessinger, J., Zhang, K.Y.J.

1 2 3

☒ 1XOZ

Characteristics



Classification



Compound



Authors



Release Date: 14-Dec-2004 Exp. Method: X Ray Diffraction



Resolution: 1.37 Å



Hydrolase



Mol. Id: 1 Molecule: Cgmp Specific 3' 5' Cyclic Phosphodiesterase Fragment: Catalytic Domain

Human Phosphodiesterase 5a

Card, G.L., England, B.P., Suzuki, Y., Fong, D., Powell, B., Lee, B., Luu, C., Tabrizizad, M., Gillette, S., Ibrahim, P.N., Artis, D.R., Bollag, G., Milburn M.V., Kim, S.-H., Schlessinger, J., Zhang, K.Y.J.

☒ 1RKP

Characteristics



Crystal structure of PDE5A1-IBMX



Compound



Authors



Release Date: 30-Mar-2004 Exp. Method: X Ray Diffraction



Resolution: 1.37 Å



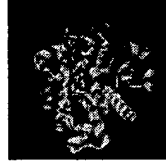
Hydrolase



Mol. Id: 1 Molecule: Cgmp Specific 3' 5' Cyclic Phosphodiesterase Fragment: Catalytic Domain

Human Phosphodiesterase 5a

Card, G.L., England, B.P., Suzuki, Y., Fong, D., Powell, B., Lee, B., Luu, C., Tabrizizad, M., Gillette, S., Ibrahim, P.N., Artis, D.R., Bollag, G., Milburn M.V., Kim, S.-H., Schlessinger, J., Zhang, K.Y.J.



## Classification

**Resolution:** 2.05 Å

## Hydrolase

**Compound**

**Mol. Id: 1**   **Molecule:** Cgmp Specific 3' 5' Cyclic Phosphodiesterase   **Fragment:** Catalytic Domain (residues 535-860)   **Mutation:** I778L

## Authors

Huai, Q., Liu, Y., Francis, S.H., Corbin, J.D., Ke, H.

☒ 1T9R

## Characteristics

Release Date: 03-Aug-2004 Exp. Method: X Ray Diffraction

Resolution: 2.10 Å

## Hydrolase

**Compound**

**Mal. Id: 1**    **Molecule:** Cgmp Specific 3' 5' Cyclic Phosphodiesterase    **Fragment:** Catalytic Domain  
Zhang, K.Y.J., Card, G.L., Suzuki, Y., Artis, D.R., Fong, D., Gillette, S., Hsieh D., Neiman, J., West, B.L., Zhang, C., Milburn, M.V., Kim, S.-H., Schlesinger J., Bollag, G.

## Authors

☒ 1X01

## Characteristics

**Release Date:** 14-Dec-2004 **Exp. Method:** X Ray Diffraction

Resolution: 2.28 Å

## Hydrolase

**Compound**

Mol. Id:	1	Molecule:	Camp Specific 3' 5' Cyclic Phosphodiesterase 4b	Fragment:	Catalytic

### Domain of Human Phosphodiesterase 4b

Card, G.L., England, B.P., Suzuki, Y., Fong, D., Powell, B., Lee, B., Luu, C., Tabrizizad, M., Gillette, S., Ibrahim, P.N., Artis, D.R., Bollag, G., Milburn M.V., Kim, S.-H., Schlessinger, J., Zhang, K.Y.J.

## Authors

**M.V., Kim, S.-H., Schlessinger, J., Zhang, K.Y.J.**

☒ 2H44

## Characteristics

Release Date: 06-Jun-2006 Exp. Method: X Ray Diffraction

**Resolution:** 1.80-Å

## Hydrolase

**Compound**

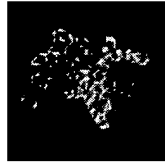
Mol. Id: 1	Molecule: Cgmp Specific 3' 5' Cyclic Phosphodiesterase	Fragment: Catalytic Domain

Residues 535 860

Authors

Wang, H., Liu, Y., Huai, Q., Cai, J., Zoraghi, R., Francis, S.H., Corbin, J.D., Robinson, H., Xin, Z., Lin, G., Ke, H.

☒ 1TBF



Characteristics

Classification

Compound

Authors

Catalytic Domain Of Human Phosphodiesterase 5A in Complex with Sildenafil

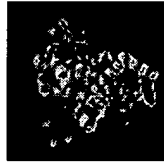
Release Date: 03-Aug-2004—Exp. Method: X Ray Diffraction

Resolution: 1.30 Å

Hydrolase

Mol. Id: 1 Molecule: Cgmp Specific 3' 5' Cyclic Phosphodiesterase Fragment: Catalytic Domain Zhang, K.Y.J., Card, G.L., Suzuki, Y., Artis, D.R., Fong, D., Gillette, S., Hsieh D., Neiman, J., West, B.L., Zhang, C., Milburn, M.V., Kim, S.-H., Schlessinger J., Bollag, G.

☒ 1XLZ



Characteristics

Classification

Compound

Authors

Catalytic Domain Of Human Phosphodiesterase 4B In Complex With Filaminast

Release Date: 14-Dec-2004 Exp. Method: X Ray Diffraction

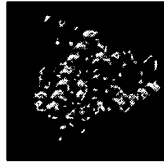
Resolution: 2.06 Å

Hydrolase

Mol. Id: 1 Molecule: Camp Specific 3' 5' Cyclic Phosphodiesterase 4b Fragment: Catalytic Domain of Human Phosphodiesterase 4b

Card, G.L., England, B.P., Suzuki, Y., Fong, D., Powell, B., Lee, B., Luu, C., Tabrizizad, M., Gillette, S., Ibrahim, P.N., Artis, D.R., Bollag, G., Milburn M.V., Kim, S.-H., Schlessinger, J., Zhang, K.Y.J.

☒ 1XM4



Characteristics

Classification

Compound

Catalytic Domain Of Human Phosphodiesterase 4B In Complex With Piclamilast

Release Date: 14-Dec-2004 Exp. Method: X Ray Diffraction

Resolution: 2.31 Å

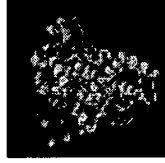
Hydrolase

Mol. Id: 1 Molecule: Camp Specific 3' 5' Cyclic Phosphodiesterase 4b Fragment: Catalytic Domain of Human Phosphodiesterase 4b Mol. Id: 2 Molecule: Camp Specific 3' 5' Cyclic Phosphodiesterase 4b Fragment: Catalytic Domain of Human Phosphodiesterase 4b

Card, G.L., England, B.P., Suzuki, Y., Fong, D., Powell, B., Lee, B., Luu,

## Authors

C., Tabrizizad, M., Gillette, S., Ibrahim, P.N., Artis, D.R., Bollag, G., Milburn, M.V., Kim, S.-H., Schlessinger, J., Zhang, K.Y.J.

☒ 1XM6

## Characteristics

## Classification

## Compound

## Catalytic Domain Of Human Phosphodiesterase 4B In Complex With (R)-Mesopram

Release Date: 14-Dec-2004 Exp. Method: X Ray Diffraction

Resolution: 1.92 Å

## Hydrolase

Mol. Id: 1 Molecule: Camp Specific 3' 5' Cyclic Phosphodiesterase 4b Fragment: Catalytic

Domain of Human Phosphodiesterase 4b

Card, G.L., England, B.P., Suzuki, Y., Fong, D., Powell, B., Lee, B., Luu, C., Tabrizizad, M., Gillette, S., Ibrahim, P.N., Artis, D.R., Bollag, G., Milburn M.V., Kim, S.-H., Schlessinger, J., Zhang, K.Y.J.

## Authors

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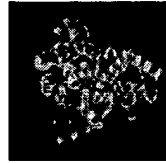
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1XMY



Characteristics

Classification

Compound

Authors

Catalytic Domain Of Human Phosphodiesterase 4B In Complex With Roflumilast

Release Date: 14-Dec-2004 Exp. Method: X Ray Diffraction

Resolution: 2.30 Å

Hydrolase

Mol. Id: 1 Molecule: Camp Specific 3' 5' Cyclic Phosphodiesterase 4b Fragment: Catalytic

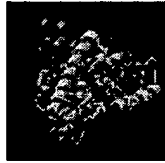
Domain of Human Phosphodiesterase 4b Mol. Id: 2 Molecule: Camp Specific 3' 5' Cyclic

Phosphodiesterase 4b Fragment: Catalytic Domain of Human Phosphodiesterase 4b

Card, G.L., England, B.P., Suzuki, Y., Fong, D., Powell, B., Lee, B., Luu, C., Tabrizizad, M., Gillette, S., Ibrahim, P.N., Artis, D.R., Bollag, G., Milburn M.V., Kim, S.-H., Schlessinger, J., Zhang, K.Y.J.



1XMY



Characteristics

Classification

Compound

Authors

Catalytic Domain Of Human Phosphodiesterase 4B In Complex With (R)-Rolipram

Release Date: 14-Dec-2004 Exp. Method: X Ray Diffraction

Resolution: 2.40 Å

Hydrolase

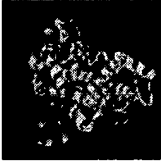















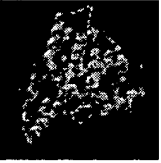















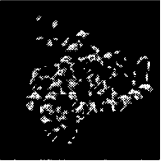

















Mol. Id: 1 Molecule: Camp Specific 3' 5' Cyclic Phosphodiesterase 4b Fragment: Catalytic

Domain of Human Phosphodiesterase 4b Mol. Id: 2 Molecule: Camp Specific 3' 5' Cyclic

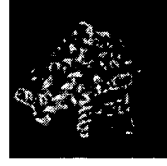
Phosphodiesterase 4b Fragment: Catalytic Domain of Human Phosphodiesterase 4b

Card, G.L., England, B.P., Suzuki, Y., Fong, D., Powell, B., Lee, B., Luu, C., Tabrizizad, M., Gillette, S., Ibrahim, P.N., Artis, D.R., Bollag, G., Milburn M.V., Kim, S.-H., Schlessinger, J., Zhang, K.Y.J.

Catalytic Domain Of Human Phosphodiesterase 4B In Complex With (R,S)-

<input checked="" type="checkbox"/> 1XNO		  	<b>Rolipram</b>
		  	<b>Characteristics</b>
		  	<b>Classification</b>
		  	<b>Compound</b>
		  	<b>Authors</b>
			<p><b>Release Date:</b> 14-Dec-2004 <b>Exp. Method:</b> X Ray Diffraction</p> <p><b>Resolution:</b> 2.31 Å</p> <p><b>Hydrolase</b></p> <p><b>Mol. Id:</b> 1 <b>Molecule:</b> Camp Specific 3' 5' Cyclic Phosphodiesterase 4b <b>Fragment:</b> Catalytic Domain of Human Phosphodiesterase 4b</p> <p><b>Card, G.L., England, B.P., Suzuki, Y., Fong, D., Powell, B., Lee, B., Luu, C., Tabrizizad, M., Gillette, S., Ibrahim, P.N., Artis, D.R., Bollag, G., Milburn M.V., Kim, S.-H., Schlessinger, J., Zhang, K.Y.J.</b></p>
<input checked="" type="checkbox"/> 1XOQ		  	<b>Catalytic Domain Of Human Phosphodiesterase 4D In Complex With Roflumilast</b>
		  	<b>Characteristics</b>
		  	<b>Classification</b>
		  	<b>Compound</b>
		  	<b>Authors</b>
			<p><b>Release Date:</b> 14-Dec-2004 <b>Exp. Method:</b> X Ray Diffraction</p> <p><b>Resolution:</b> 1.83 Å</p> <p><b>Hydrolase</b></p> <p><b>Mol. Id:</b> 1 <b>Molecule:</b> Camp Specific 3' 5' Cyclic Phosphodiesterase 4d <b>Fragment:</b> Catalytic Domain of Human Phosphodiesterase 4d</p> <p><b>Card, G.L., England, B.P., Suzuki, Y., Fong, D., Powell, B., Lee, B., Luu, C., Tabrizizad, M., Gillette, S., Ibrahim, P.N., Artis, D.R., Bollag, G., Milburn M.V., Kim, S.-H., Schlessinger, J., Zhang, K.Y.J.</b></p>
<input checked="" type="checkbox"/> 1XOT		  	<b>Catalytic Domain Of Human Phosphodiesterase 4B In Complex With Vardenafil</b>
		  	<b>Characteristics</b>
		  	<b>Classification</b>
		  	<b>Compound</b>
		  	<b>Authors</b>
			<p><b>Release Date:</b> 14-Dec-2004 <b>Exp. Method:</b> X Ray Diffraction</p> <p><b>Resolution:</b> 2.34 Å</p> <p><b>Hydrolase</b></p> <p><b>Mol. Id:</b> 1 <b>Molecule:</b> Camp Specific 3' 5' Cyclic Phosphodiesterase 4b <b>Fragment:</b> Catalytic Domain of Human Phosphodiesterase 4b</p> <p><b>Card, G.L., England, B.P., Suzuki, Y., Fong, D., Powell, B., Lee, B., Luu, C., Tabrizizad, M., Gillette, S., Ibrahim, P.N., Artis, D.R., Bollag, G., Milburn M.V., Kim, S.-H., Schlessinger, J., Zhang, K.Y.J.</b></p>
<input checked="" type="checkbox"/> 2H40		  	<b>Crystal structure of the catalytic domain of unliganded PDE5</b>






### Characteristics

Release Date: 06-Jun-2006 Exp. Method: X Ray Diffraction

### Classification

Resolution: 1.85 Å

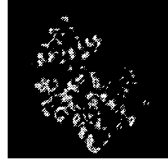
### Hydrolase

### Compound

Mol. Id: 1 Molecule: Cgmp Specific 3' 5' Cyclic Phosphodiesterase Fragment: Catalytic Domain  
Residues 535 860

### Authors

Wang, H., Liu, Y., Huai, Q., Cai, J., Zoraghi, R., Francis, S.H., Corbin, J.D., Robinson, H., Xin, Z., Lin, G., Ke, H.

☒ 1T9S



### Characteristics

Release Date: 03-Aug-2004 Exp. Method: X Ray Diffraction

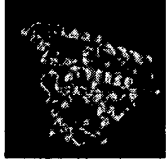
### Classification

Resolution: 2.00 Å

### Hydrolase

### Compound

Mol. Id: 1 Molecule: Cgmp Specific 3' 5' Cyclic Phosphodiesterase Fragment: Catalytic Domain  
Zhang, K.Y.J., Card, G.L., Suzuki, Y., Artis, D.R., Fong, D., Gillette, S., Hsieh D., Neiman, J., West, B.L., Zhang, C., Milburn, M.V., Kim, S.-H., Schlessinger J., Bollag, G.

☒ 1XOM



### Characteristics

Release Date: 14-Dec-2004 Exp. Method: X Ray Diffraction

### Classification

Resolution: 1.55 Å

### Hydrolase

### Compound

Mol. Id: 1 Molecule: Camp Specific 3' 5' Cyclic Phosphodiesterase 4d Fragment: Catalytic Domain of Human Phosphodiesterase 4d

Card, G.L., England, B.P., Suzuki, Y., Fong, D., Powell, B., Lee, B., Luu, C., Tabrizizad, M., Gillette, S., Ibrahim, P.N., Artis, D.R., Bollag, G., Milburn M.V., Kim, S.-H., Schlessinger, J., Zhang, K.Y.J.

☒ 1XON


### Catalytic Domain Of Human Phosphodiesterase 4D In Complex With Piclamilast


### Characteristics

Release Date: 14-Dec-2004 Exp. Method: X Ray Diffraction

### Classification

Resolution: 1.72 Å


### Hydrolase



Compound

Authors

**Mol. Id:** 1    **Molecule:** Camp Specific 3' 5' Cyclic Phosphodiesterase 4d    **Fragment:** Catalytic Domain of Human Phosphodiesterase 4d  
**Card, G.L., England, B.P., Suzuki, Y., Fong, D., Powell, B., Lee, B., Luu, C., Tabrizizad, M., Gillette, S., Ibrahim, P.N., Artis, D.R., Bollag, G., Milburn M.V., Kim, S.-H., Schlessinger, J., Zhang, K.Y.J.**

☒ 1XOR 

Characteristics

Classification

Compound

Authors

**Catalytic Domain Of Human Phosphodiesterase 4D In Complex With Zardaverine**  
**Release Date:** 14-Dec-2004    **Exp. Method:** X Ray Diffraction  
**Resolution:** 1.54 Å  
**Hydrolase**  
**Mol. Id:** 1    **Molecule:** Camp Specific 3' 5' Cyclic Phosphodiesterase 4d    **Fragment:** Catalytic Domain of Human Phosphodiesterase 4d  
**Card, G.L., England, B.P., Suzuki, Y., Fong, D., Powell, B., Lee, B., Luu, C., Tabrizizad, M., Gillette, S., Ibrahim, P.N., Artis, D.R., Bollag, G., Milburn M.V., Kim, S.-H., Schlessinger, J., Zhang, K.Y.J.**

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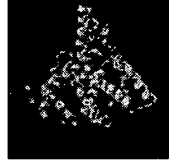
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Characteristics



Classification



Compound



Authors

## CRYSTAL STRUCTURE OF N2 SUBSTITUTED PYRAZOLO PYRIMIDINONES-A FLIPPED BINDING MODE IN PDE5

Release Date: 08-Jun-2006 Exp. Method: X Ray Diffraction

Resolution: 1.60 Å

Hydrolase

Mol. Id: 1 Molecule: Cgmp Specific 3' 5' Cyclic Phosphodiesterase Camp Specific 3' 5' Cyclic

Phosphodiesterase 4b Fragment: Catalytic Domain Residues (residues 534 858 with Subdomain

Replaced with Pde4 Subdomain)

Allerton, C.M.N., Barber, C.G., Beaumont, K.C., Brown, D.G., Cole, S.M., Ellis D., Lane, C.A.L., Maw, G.N., Mount, N.M., Rawson, D.J., Robinson, C.M., Street, S.D.A., Summerhill, N.W.

## Crystal structure of PDE5 in complex with sildenafil



Characteristics



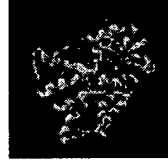
Classification



Compound



Authors

☒ 2H42

Release Date: 06-Jun-2006 Exp. Method: X Ray Diffraction

Resolution: 2.30 Å

Hydrolase

Mol. Id: 1 Molecule: Cgmp Specific 3' 5' Cyclic Phosphodiesterase Fragment: Catalytic Domain

Residues 535 860

Wang, H., Liu, Y., Huai, Q., Cai, J., Zoraghi, R., Francis, S.H., Corbin, J.D., Robinson, H., Xin, Z., Lin, G., Ke, H.

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STN  
10/771,833

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(FILE 'HOME' ENTERED AT 17:06:11 ON 05 JUL 2006)

FILE 'CAPLUS' ENTERED AT 17:06:24 ON 05 JUL 2006

L1 25744 S PHOSPHODIESTERASE  
L2 43 S PDE5A  
L3 7 S L2 AND CRYSTAL?  
L4 3 S L1 AND CO-CRYSTAL  
L5 122 S L1 AND 5A  
L6 16 S L5 AND LIGAND

=> d L3 1-7

L3 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN  
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DN 142:276014  
TI Crystal structure of human PDE5A and the use of  
structural information in drug discovery  
IN Artis, Dean R.; Bollag, Gideon; Card, Graeme; Martin, Fernando; Milburn,  
Michael V.; Zhang, Kam  
PA Plexxikon, Inc., USA  
SO U.S. Pat. Appl. Publ., 111 pp.  
CODEN: USXXCO

DT Patent  
LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	US 2005048573	A1	20050303	US 2004-771833	20040203
	US 2005079548	A1	20050414	US 2004-886949	20040707
PRAI	US 2003-444734P	P	20030203		
	US 2003-485627P	P	20030707		

L3 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN  
AN 2004:1046836 CAPLUS  
DN 142:168962  
TI Structural Basis for the Activity of Drugs that Inhibit Phosphodiesterases  
AU Card, Graeme L.; England, Bruce P.; Suzuki, Yoshihisa; Fong, Daniel;  
Powell, Ben; Lee, Byunghun; Luu, Catherine; Tabrizizad, Maryam; Gillette,  
Sam; Ibrahim, Prabha N.; Artis, Dean R.; Bollag, Gideon; Milburn, Michael  
V.; Kim, Sung-Hou; Schlessinger, Joseph; Zhang, Kam Y. J.  
CS Plexxikon, Inc., Berkeley, CA, 94710, USA  
SO Structure (Cambridge, MA, United States) (2004), 12(12), 2233-2247  
CODEN: STRUE6; ISSN: 0969-2126

PB Cell Press

DT Journal

LA English

RE.CNT 52 THERE ARE 52 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN  
AN 2004:663765 CAPLUS  
DN 141:345579  
TI A glutamine switch mechanism for nucleotide selectivity by  
phosphodiesterases  
AU Zhang, Kam Y. J.; Card, Graeme L.; Suzuki, Yoshihisa; Artis, D. Richard;

Fong, Daniel; Gillette, Sam; Hsieh, Davin; Neiman, Joshua; West, Brian L.; Zhang, Chao; Milburn, Michael V.; Kim, Sung-Hou; Schlessinger, Joseph; Bollag, Gideon

CS Plexxikon Inc., Berkeley, CA, 94710, USA

SO Molecular Cell (2004), 15(2), 279-286

CODEN: MOCEFL; ISSN: 1097-2765

PB Cell Press

DT Journal

LA English

RE.CNT 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2004:73292 CAPLUS

DN 141:67244

TI Homology models of the catalytic sites of phosphodiesterase 5A and 10A and molecular docking of selective apoptotic antineoplastic drugs (SAANDs)

AU Salter, E. A.; Wierzbicki, A.; Sperl, G.; Thompson, W. J.

CS Dep. Chem., Univ. South Alabama, Mobile, AL, 36693, USA

SO International Journal of Quantum Chemistry (2004), 96(4), 402-410

CODEN: IJQCB2; ISSN: 0020-7608

PB John Wiley & Sons, Inc.

DT Journal

LA English

RE.CNT 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2003:212533 CAPLUS

DN 139:81259

TI Modeling and mutational analysis of the GAF domain of the cGMP-binding, cGMP-specific phosphodiesterase, PDE5

AU Sopory, Shailaja; Balaji, S.; Srinivasan, N.; Visweswariah, Sandhya S.

CS Development and Genetics, Department of Molecular Reproduction, Indian Institute of Science, Bangalore, 560012, India

SO FEBS Letters (2003), 539(1-3), 161-166

CODEN: FEBLAL; ISSN: 0014-5793

PB Elsevier Science B.V.

DT Journal

LA English

RE.CNT 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2003:181875 CAPLUS

TI Homology models of the catalytic sites of phosphodiesterase types 5A and 10A and molecular docking of selective apoptotic antineoplastic drugs

AU Wierzbicki, A.; Salter, E. A.; Sperl, G.; Thompson, W. J.

CS Department of Chemistry, University of South Alabama, Mobile, AL, 36688, USA

SO Abstracts of Papers, 225th ACS National Meeting, New Orleans, LA, United States, March 23-27, 2003 (2003), COMP-189 Publisher: American Chemical Society, Washington, D. C.

CODEN: 69DSA4

DT Conference; Meeting Abstract

LA English

L3 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2001:763235 CAPLUS

DN 135:314399

TI Detection of variations in the DNA methylation profile of genes in the determining the risk of disease

IN Berlin, Kurt; Piepenbrock, Christian; Olek, Alexander

PA Epigenomics A.-G., Germany  
 SO PCT Int. Appl., 636 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA German  
 FAN.CNT 69

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001077373	A2	20011018	WO 2001-DE1486	20010406
	DE 10019058	A1	20011220	DE 2000-10019058	20000406
	WO 2001077373	A2	20011018	WO 2001-XA1486	20010406
	WO 2001077373	A2	20011018	WO 2001-XB1486	20010406
	AU 2001073840	A5	20011023	AU 2001-73840	20010406
	AU 2001077487	A5	20011023	AU 2001-77487	20010406
	EP 1278892	A1	20030129	EP 2001-940158	20010406
	EP 1360319	A2	20031112	EP 2001-955278	20010406
	US 2004067491	A1	20040408	US 2003-240454	20030311
	AU 2003204553	A1	20040108	AU 2003-204553	20030605
	JP 2004008217	A2	20040115	JP 2003-160375	20030605
	US 2004023279	A1	20040205	US 2003-455212	20030605
PRAI	DE 2000-10019058	A	20000406		
	DE 2000-10019173	A	20000407		
	DE 2000-10032529	A	20000630		
	DE 2000-10043826	A	20000901		
	WO 2001-DE1486	W	20010406		
	WO 2001-EP4016	W	20010406		
	EP 2002-90203	A	20020605		

=> d L4 1-3

L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN  
 AN 2006:248372 CAPLUS  
 TI Structure-based design of long-acting PDE5 inhibitors  
 AU Bell, Andrew S.; Palmer, Michael J.; Dack, Kevin N.; Marsh, Ian R.;  
 Morrell, Andrew I.; Brown, David G.  
 CS Sandwich Chemistry, Pfizer Global Research & Development, Sandwich, Kent,  
 CT13 9NJ, UK  
 SO Abstracts of Papers, 231st ACS National Meeting, Atlanta, GA, United  
 States, March 26-30, 2006 (2006), MEDI-220 Publisher: American Chemical  
 Society, Washington, D. C.  
 CODEN: 69HYEC  
 DT Conference; Meeting Abstract; (computer optical disk)  
 LA English

L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN  
 AN 2005:1171089 CAPLUS  
 DN 143:454864  
 TI Crystal structure guanosine cyclic 3',5'-phosphate  
 phosphodiesterase 9A and co-crystal with  
 ligand for use in drug screening  
 IN Liu, Shenping  
 PA Pfizer Products Inc., USA  
 SO PCT Int. Appl., 240 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005103241	A1	20051103	WO 2005-IB1046	20050414
PRAI	US 2004-565359P	P	20040426		

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD

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L4 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN  
AN 2004:663765 CAPLUS  
DN 141:345579  
TI A glutamine switch mechanism for nucleotide selectivity by  
phosphodiesterases  
AU Zhang, Kam Y. J.; Card, Graeme L.; Suzuki, Yoshihisa; Artis, D. Richard;  
Fong, Daniel; Gillette, Sam; Hsieh, Davin; Neiman, Joshua; West, Brian L.;  
Zhang, Chao; Milburn, Michael V.; Kim, Sung-Hou; Schlessinger, Joseph;  
Bollag, Gideon  
CS Plexxikon Inc., Berkeley, CA, 94710, USA  
SO Molecular Cell (2004), 15(2), 279-286  
CODEN: MOCEFL; ISSN: 1097-2765  
PB Cell Press  
DT Journal  
LA English  
RE.CNT 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=&gt; d L6 1-16

L6 ANSWER 1 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN  
AN 2006:120414 CAPLUS  
DN 144:184702  
TI Gene expression profiles for identifying patients at risk of developing  
encephalitis following immunotherapy for Alzheimer's disease  
IN O'Toole, Margot; Dorner, Andrew J.; Janszen, Derek B.; Slonim, Donna K.;  
Mounts, William M.; Reddy, Padmalatha S.; Hill, Andrew A.  
PA Wyeth, John, and Brother Ltd., USA  
SO PCT Int. Appl., 298 pp.  
CODEN: PIXXD2  
DT Patent  
LA English  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	WO 2006014755	A2	20060209	WO 2005-US25771	20050720
	WO 2006014755	A3	20060413		
	US 2006073496	A1	20060406	US 2005-186236	20050720
PRAI	US 2004-589877P	P	20040720		
	US 2005-672716P	P	20050418		

L6 ANSWER 2 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN  
AN 2006:15018 CAPLUS  
DN 144:106090  
TI Gene expression and protein profiles in bipolar disorder and major  
depressive disorder and their use in the diagnosis and treatment of  
psychiatric disease  
IN Akil, Huda; Bunney, William E., Jr.; Choudary, Prabhakara V.; Evans, Simon  
J.; Jones, Edward G.; Li, Jun; Lopez, Juan F.; Lyons, David M.; Molnar,  
Margherita; Myers, Richard M.; Schatzberg, Alan F.; Stein, Richard;  
Thompson, Robert C.; Tomita, Hiroaki; Vawter, Marquis P.; Watson, Stanley  
J.  
PA The Board of Trustees of the Leland Stanford Junior University, USA  
SO PCT Int. Appl., 246 pp.  
CODEN: PIXXD2  
DT Patent  
LA English  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	WO 2006002262	A2	20060105	WO 2005-US22111	20050621
	US 2006051786	A1	20060309	US 2005-158530	20050621
PRAI	US 2004-581998P	P	20040621		
	US 2004-621252P	P	20041022		
	US 2005-667296P	P	20050331		

L6 ANSWER 3 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN  
 AN 2005:1240740 CAPLUS  
 DN 144:4118  
 TI Genes showing changes in expression in developing and aging in mouse muscle for use in diagnosis and treatment of disease  
 IN Kopchick, John J.; Coschigano, Karen T.; Boyce, Keith S.; Kriete, Andres  
 PA Ohio University, USA; Icoria, Inc.  
 SO PCT Int. Appl., 440 pp.  
 CODEN: PIXXD2

DT Patent  
 LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005110460	A2	20051124	WO 2005-US14441	20050428
	WO 2005110460	A3	20060413		
PRAI	US 2004-566068P	P	20040429		
	US 2004-577930P	P	20040609		

L6 ANSWER 4 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN  
 AN 2005:1130803 CAPLUS  
 DN 143:400778  
 TI Method of diagnosing osseointegration of artificial dental implants by means of gene arrays  
 IN Block, Lutz-Henning; Ziesche, Rolf  
 PA Germany  
 SO PCT Int. Appl., 31 pp.  
 CODEN: PIXXD2

DT Patent  
 LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005098032	A1	20051020	WO 2005-EP3603	20050406
PRAI	EP 2004-8522	A	20040408		

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 5 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN  
 AN 2005:1020555 CAPLUS  
 DN 143:320266  
 TI Genes with differential expression profile between human dental pulp stem cells and mesenchymal stem cells and use for regenerating tooth germ  
 IN Ueda, Minoru; Yamada, Yoichi  
 PA Hitachi Medical Corp., Japan  
 SO Jpn. Kokai Tokkyo Koho, 246 pp.  
 CODEN: JKXXAF

DT Patent  
 LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2005253442	A2	20050922	JP 2004-111582	20040309
PRAI	JP 2004-111582		20040309		

L6 ANSWER 6 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN  
 AN 2005:984043 CAPLUS

DN 143:284109  
 TI Diagnosis and prevention of hyperinsulinemia and type II diabetes using  
 patterns of gene expression in muscle cells  
 IN Kopchick, John J.; Coschigano, Karen T.; Boyce, Keith S.; Kriete, Andres  
 PA Ohio University, USA; Icoria, Inc.  
 SO PCT Int. Appl., 300 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005082398	A2	20050909	WO 2005-US5596	20050224
	WO 2005082398	A3	20060126		
PRAI	US 2004-547512P	P	20040226		
	US 2004-579342P	P	20040615		

L6 ANSWER 7 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN  
 AN 2005:902703 CAPLUS  
 DN 143:272498  
 TI Gene expression profiles in the diagnosis and treatment of Alzheimer's  
 disease  
 IN Landfield, Philip W.; Porter, Nada M.; Chen, Kuey Chu; Geddes, James;  
 Blalock, Eric  
 PA University of Kentucky Research Foundation, USA  
 SO PCT Int. Appl., 114 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005076939	A2	20050825	WO 2005-US3668	20050209
PRAI	US 2004-542281P	P	20040209		

L6 ANSWER 8 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN  
 AN 2005:671727 CAPLUS  
 DN 143:166667  
 TI The curcuminoids- and anthocyanins-responsive genes in human adipocytes  
 and their use in screenings of anti-obesity and anti-diabetes drugs  
 IN Ueno, Yuki; Tsuda, Takanori; Takanori, Hitoshi; Yoshikawa, Toshikazu;  
 Osawa, Toshihiko  
 PA Biomarker Science Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 85 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2005198640	A2	20050728	JP 2004-53258	20040227
PRAI	JP 2003-394758	A	20031125		

L6 ANSWER 9 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN  
 AN 2005:447673 CAPLUS  
 DN 143:20875  
 TI Differentially expressed gene profile for diagnosing and treating mental  
 disorders  
 IN Akil, Huda; Atz, Mary; Bunney, William E., Jr.; Choudary, Prabhakara V.;  
 Evans, Simon J.; Jones, Edward G.; Li, Jun; Lopez, Juan F.; Myers,  
 Richard; Thompson, Robert C.; Tomita, Hiroaki; Vawter, Marquis P.; Watson,  
 Stanley  
 PA The Board of Trustees of the Leland Stanford Junior University, USA

SO PCT Int. Appl., 226 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005046434	A2	20050526	WO 2004-US36784	20041105
	US 2005209181	A1	20050922	US 2004-982556	20041104
	AU 2004289247	A1	20050526	AU 2004-289247	20041105
PRAI	US 2003-517751P	P	20031105		
	US 2004-982556	A	20041104		
	WO 2004-US36784	W	20041105		

L6 ANSWER 10 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2004:718550 CAPLUS

DN 141:241509

TI Differentially expressed nucleic acids that correlate with KSP expression and their use as markers for diagnosis, classification, and treatment of cancer

IN Huang, Pearl S.; Jackson, Jeffrey R.

PA SmithKline Beecham Corporation, USA; Hedge, Priti S.

SO PCT Int. Appl., 87 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004074301	A2	20040902	WO 2004-US4276	20040213
	WO 2004074301	A3	20060504		
	EP 1620449	A2	20060201	EP 2004-711130	20040213
PRAI	US 2003-447842P	P	20030214		
	WO 2004-US4276	W	20040213		

L6 ANSWER 11 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2004:266918 CAPLUS

DN 140:282485

TI Methods for diagnosing interstitial lung diseases using biomarkers identified by microarray gene expression profiling

IN Bevec, Dorian

PA Mondobiotech SA, Switz.

SO Eur. Pat. Appl., 43 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1403638	A1	20040331	EP 2002-21413	20020925
PRAI	EP 2002-21413		20020925		

RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD

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L6 ANSWER 12 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2003:942764 CAPLUS

DN 140:3792

TI Genes expressed in atherosclerotic tissue and their use in diagnosis and pharmacogenetics

IN Nevins, Joseph; West, Mike; Goldschmidt, Pascal

PA Duke University, USA

SO PCT Int. Appl., 408 pp.

CODEN: PIXXD2

DT Patent  
LA English  
FAN.CNT 5

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003091391	A2	20031106	WO 2002-XA38221	20021112
PRAI	US 2002-374547P	P	20020423		
	US 2002-420784P	P	20021024		
	US 2002-421043P	P	20021025		
	US 2002-424680P	P	20021108		
	WO 2002-US38221	A	20021112		

L6 ANSWER 13 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN  
AN 2003:491063 CAPLUS  
DN 139:57897

TI Novel pharmaceutical composition of interferon gamma or pirfenidone combined with molecular diagnostics for the improved treatment of interstitial lung diseases

IN Bevec, Dorian; Ziesche, Rolf

PA Mondobiotech SA, Switz.

SO PCT Int. Appl., 80 pp.

CODEN: PIXXD2

DT Patent  
LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003051388	A2	20030626	WO 2002-CH691	20021212
	WO 2003051388	A3	20031030		
	CA 2470763	AA	20030626	CA 2002-2470763	20021212
	AU 2002347182	A1	20030630	AU 2002-347182	20021212
	BR 2002007310	A	20040817	BR 2002-7310	20021212
	EP 1455813	A2	20040915	EP 2002-782602	20021212
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
	CN 1620309	A	20050525	CN 2002-828206	20021212
	JP 2005528082	T2	20050922	JP 2003-552321	20021212
	NO 2003003642	A	20031017	NO 2003-3642	20030815
PRAI	EP 2001-130011	A	20011218		
	WO 2002-CH691	W	20021212		

L6 ANSWER 14 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN  
AN 2002:937303 CAPLUS  
DN 138:20443

TI Endocrine disruptor screening using DNA chips of endocrine disruptor-responsive genes

IN Kondo, Akihiro; Takeda, Takeshi; Mizutani, Shigetoshi; Tsujimoto, Yoshimasa; Takashima, Ryokichi; Enoki, Yuki; Kato, Ikunoshin

PA Takara Bio Inc., Japan

SO Jpn. Kokai Tokkyo Koho, 386 pp.

CODEN: JKXXAF

DT Patent  
LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2002355079	A2	20021210	JP 2002-69354	20020313
PRAI	JP 2001-73183	A	20010314		
	JP 2001-74993	A	20010315		
	JP 2001-102519	A	20010330		

L6 ANSWER 15 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN  
AN 2001:64506 CAPLUS

DN 137:91258  
TI ES cell neural differentiation reveals a substantial number of novel ESTs.  
[Erratum to document cited in CA135:150370]  
AU Bain, G.; Mansergh, F. C.; Wride, M. A.; Hance, J. E.; Isogawa, A.;  
Rancourt, S. L.; Ray, W. J.; Yoshimura, Y.; Tsuzuki, T.; Gottlieb, D. I.;  
Rancourt, D. E.  
CS Department of OncologyDepartment of Biochemistry and Molecular Biology,  
The University of Calgary, Calgary, AB, T2N 4N1, Can.  
SO Functional & Integrative Genomics (2000), 1(3), 218-219  
CODEN: FIGUBY; ISSN: 1438-793X  
PB Springer-Verlag  
DT Journal  
LA English

L6 ANSWER 16 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN  
AN 2001:59749 CAPLUS  
DN 135:150370  
TI ES cell neural differentiation reveals a substantial number of novel ESTs  
AU Bain, G.; Mansergh, F. C.; Wride, M. A.; Hance, J. E.; Isogawa, A.;  
Rancourt, S. L.; Ray, W. J.; Yoshimura, Y.; Tsuzuki, T.; Gottlieb, D. I.;  
Rancourt, D. E.  
CS Department of Oncology, Department of Biochemistry and Molecular Biology,  
The University of Calgary, Calgary, AB, T2N 4N1, Can.  
SO Functional & Integrative Genomics (2000), 1(2), 127-139  
CODEN: FIGUBY; ISSN: 1438-793X  
PB Springer-Verlag  
DT Journal  
LA English

RE.CNT 53 THERE ARE 53 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT